

FIG.1

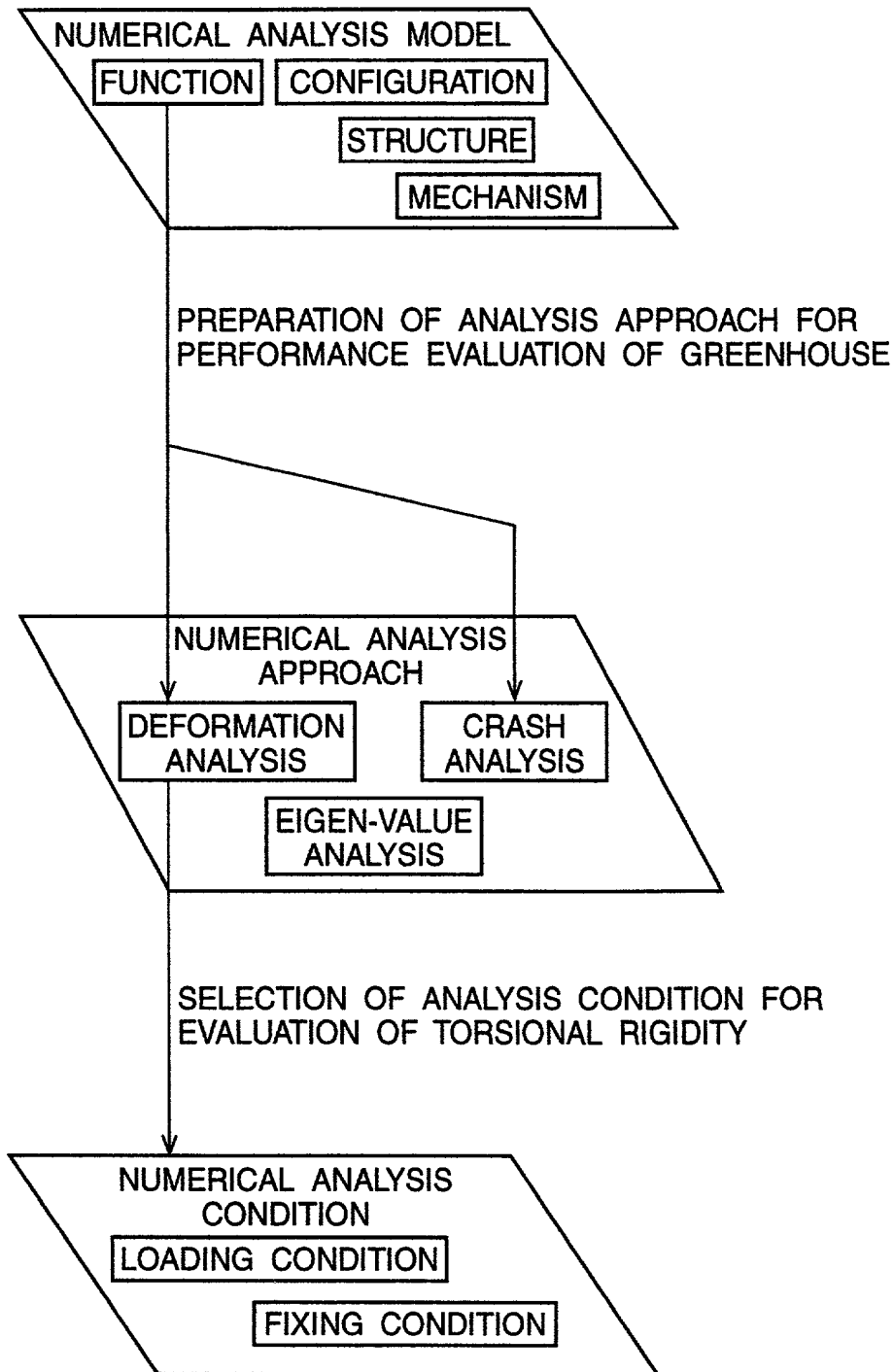


FIG.2

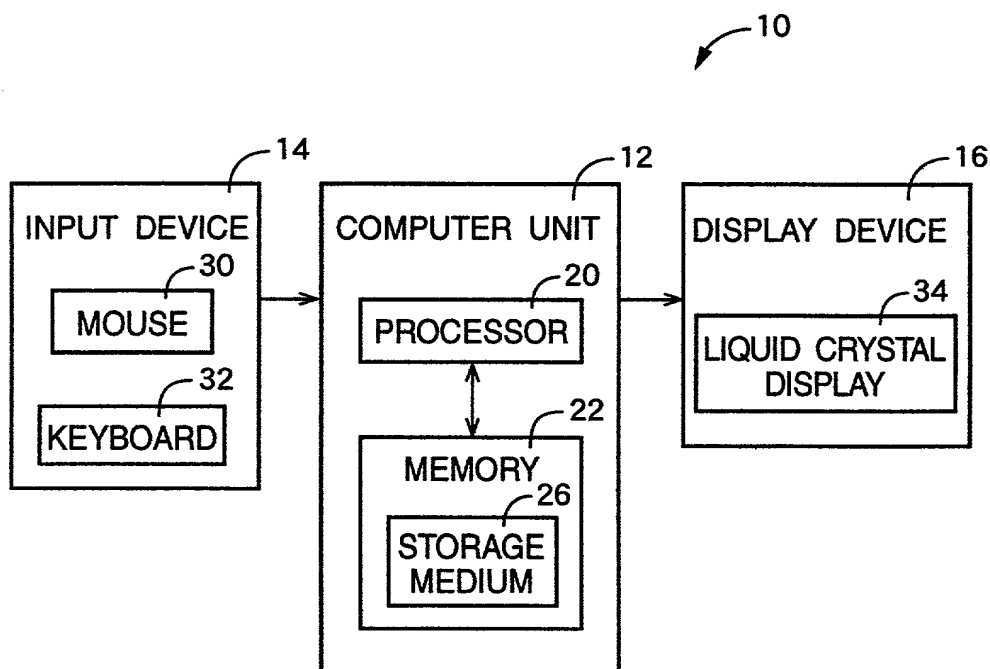


FIG.3

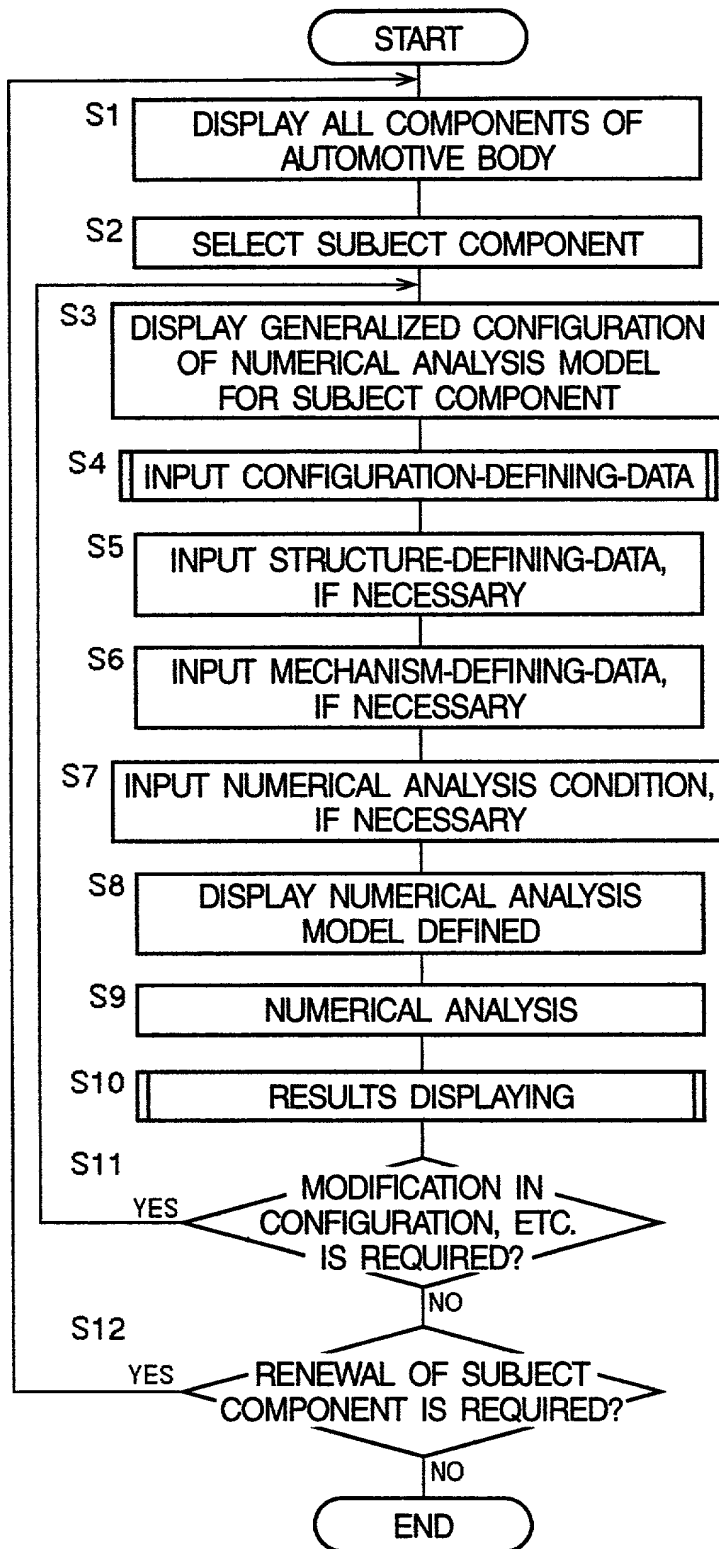


FIG.4

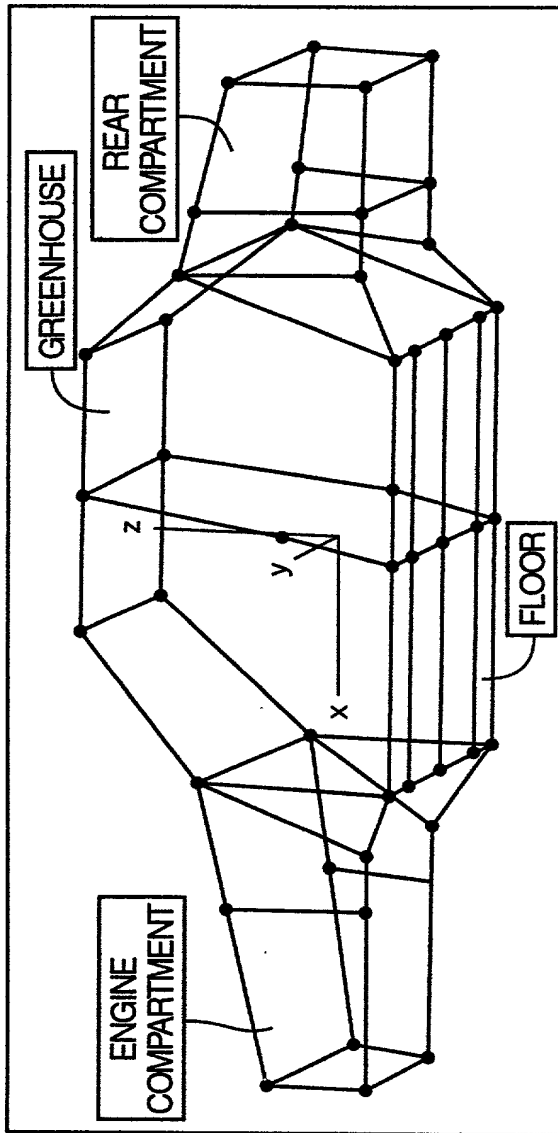


FIG.5

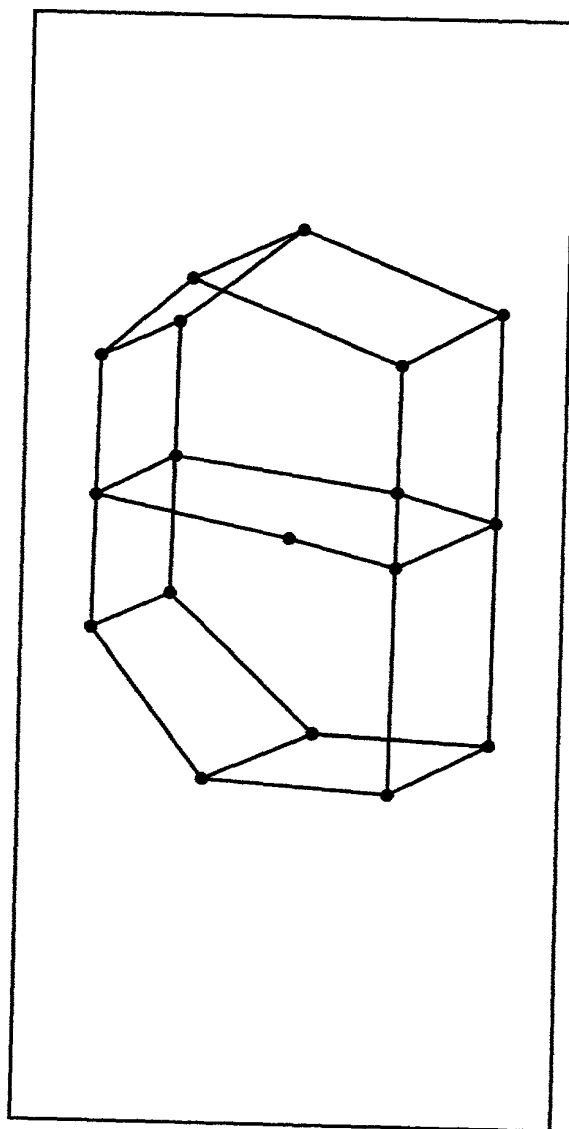


FIG.6

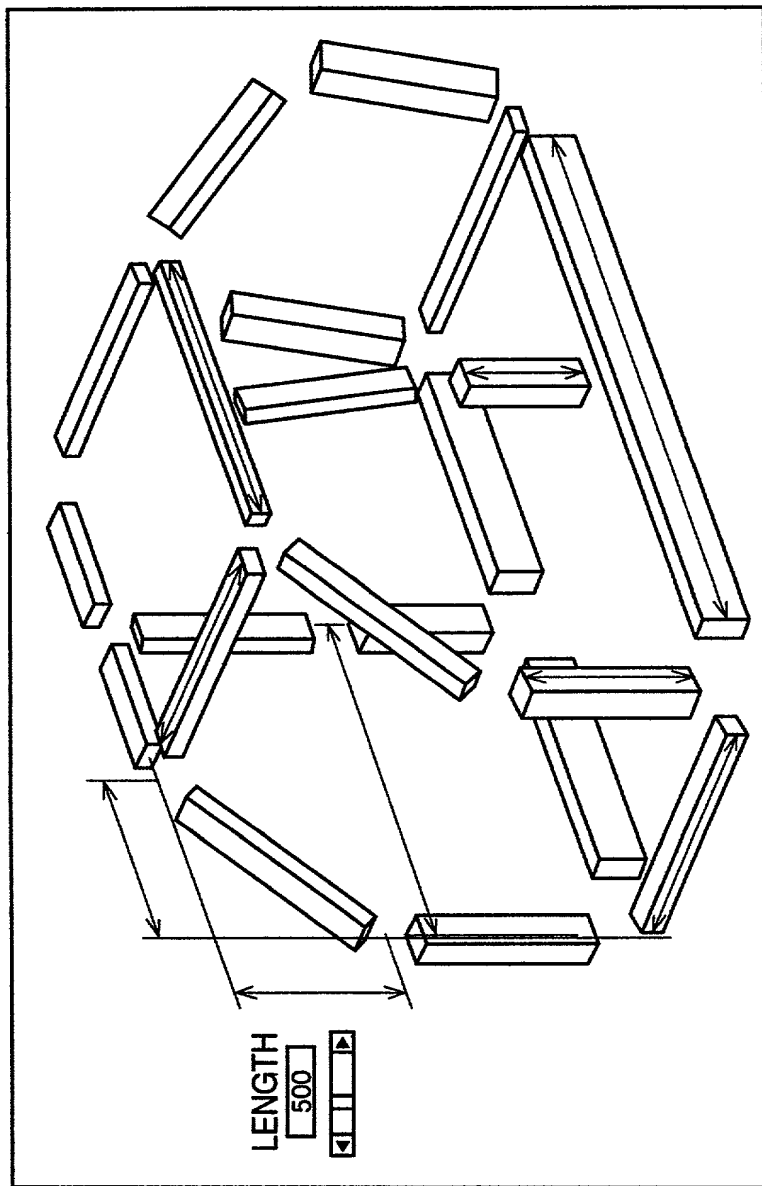
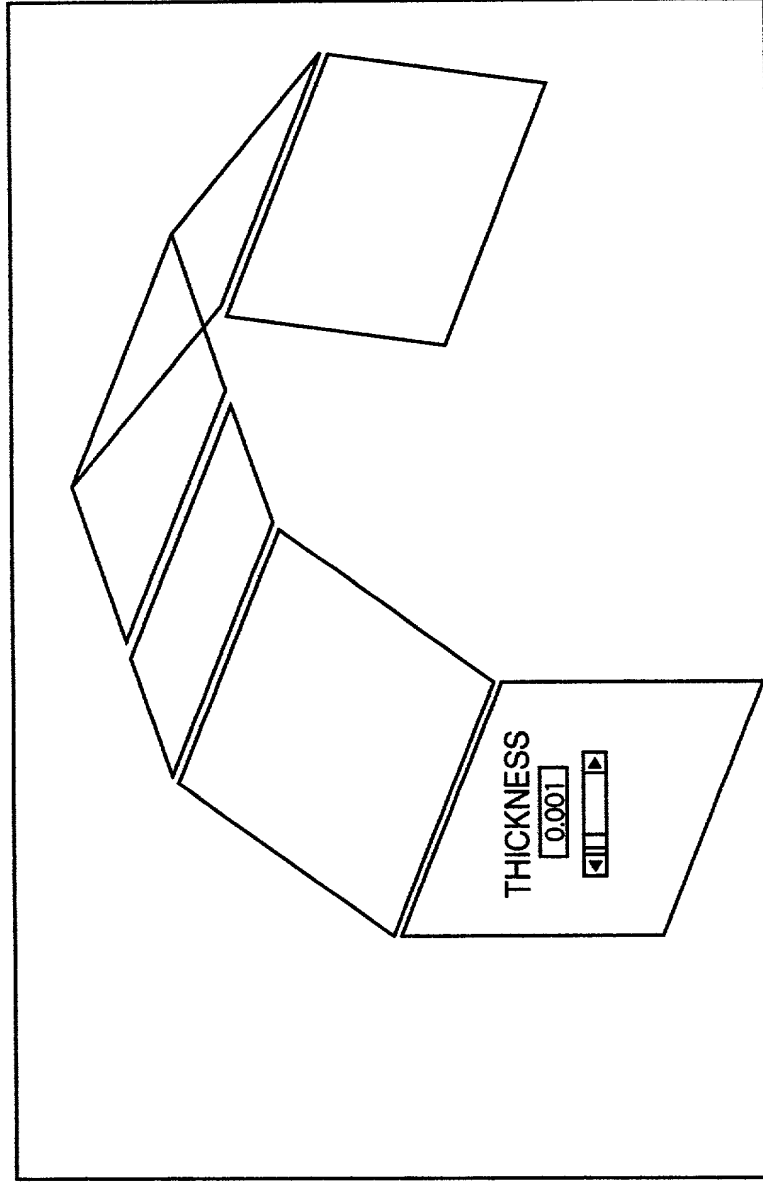


FIG. 7



## FIG. 8



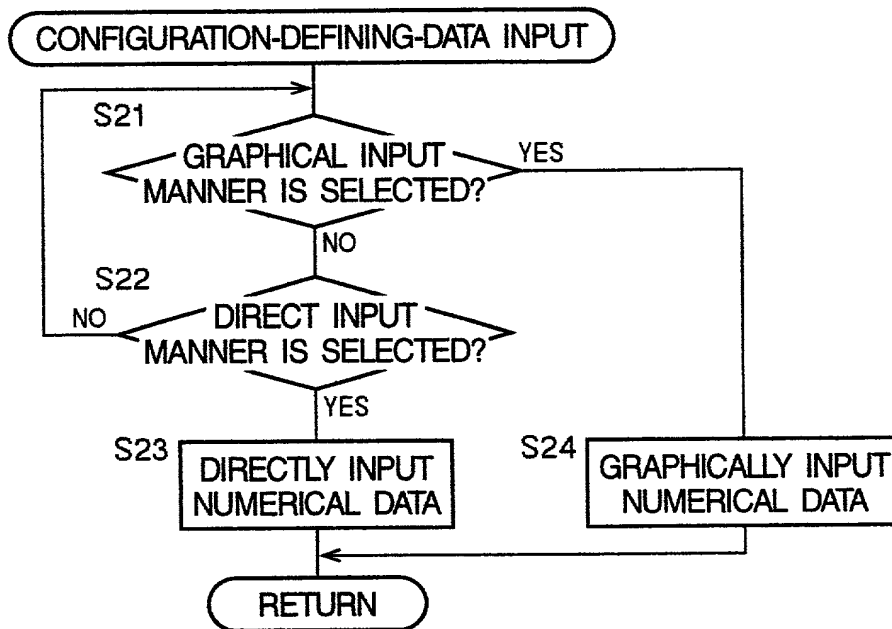


FIG.9

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	<div>POINT-DATA INPUT SHEET</div>													
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24														
25														
26														
27														
28														
29														

POINT	X	Y	Z
1	123	12	321
2	456	34	654
3	789	56	987
4	101112	78	121110
5	131415	910	151413
6	123	12	321
7	456	34	654
8	789	56	987
9	101112	78	121110
10	131415	910	151413
11	123	12	321
12	456	34	654
13	789	56	987
14	101112	78	121110
15	131415	910	151413
16	123	12	321
17	456	34	654
18	789	56	987
19	101112	78	121110
20	131415	910	151413

FIG.10

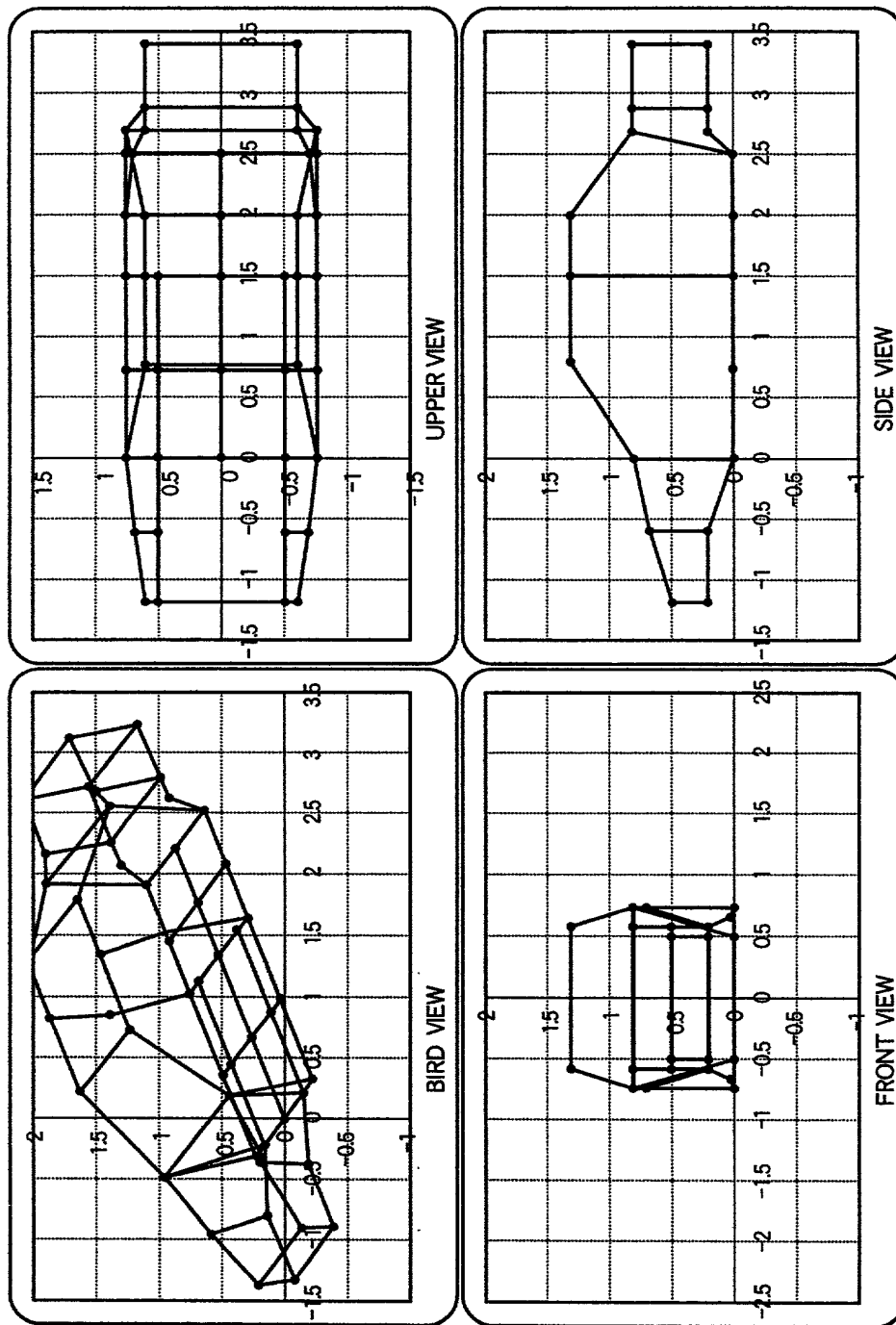


FIG.11

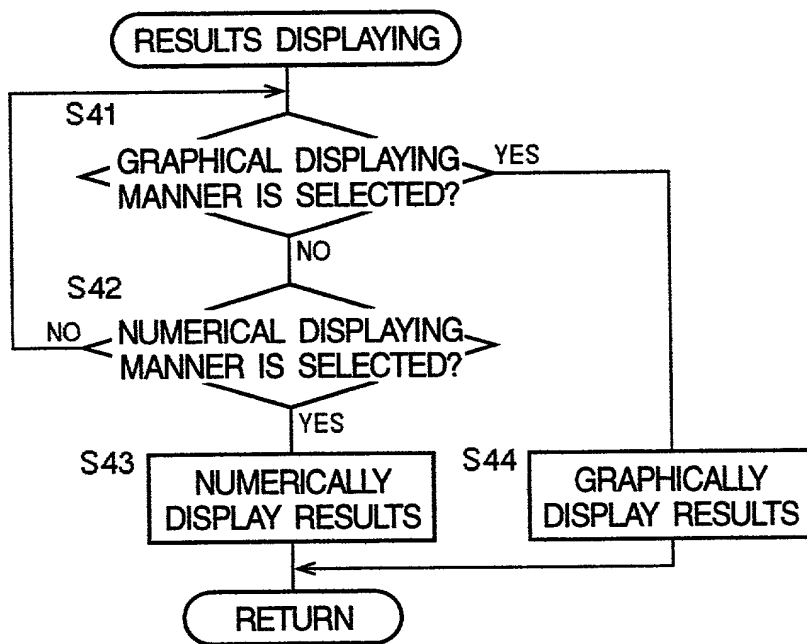
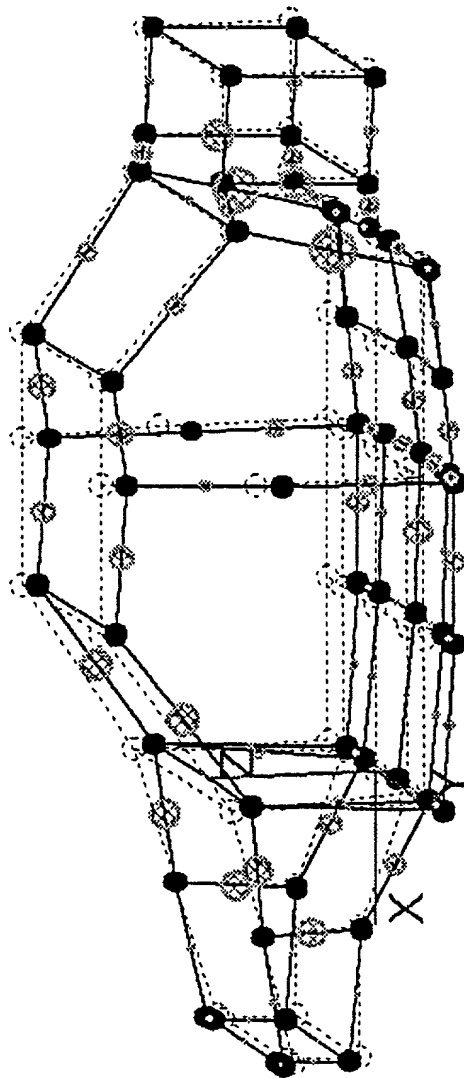


FIG.12



Max Value = 9.9261E-02

Circle Plot of Results (for each Element)

○ Axial\_Force ○ Shear\_Fy ○ Shear\_Fz ○ Torsional\_Moment ○ My ○ Mz ○ Strain\_Energy

Positive  
Negative

FIG. 13

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	ANALYSIS RESULTS SHEET													
2														
3														
4														
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FIG.14

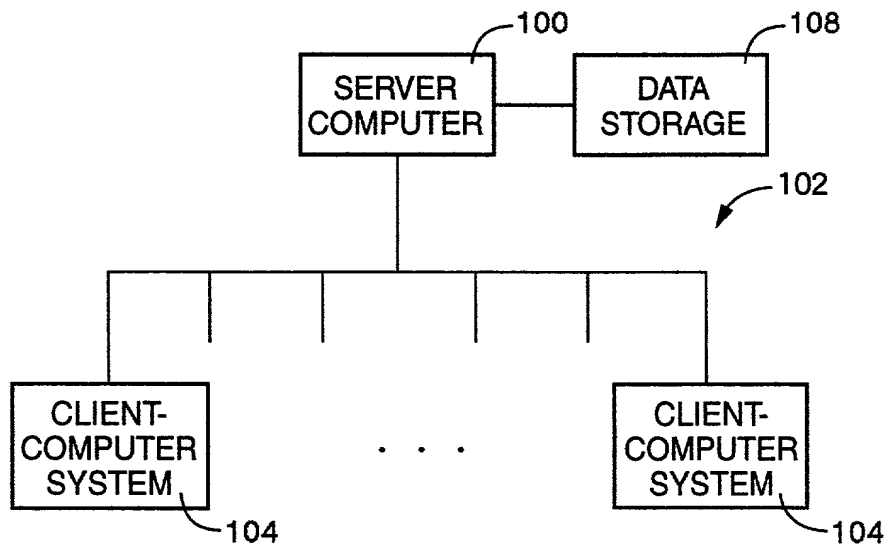


FIG.15

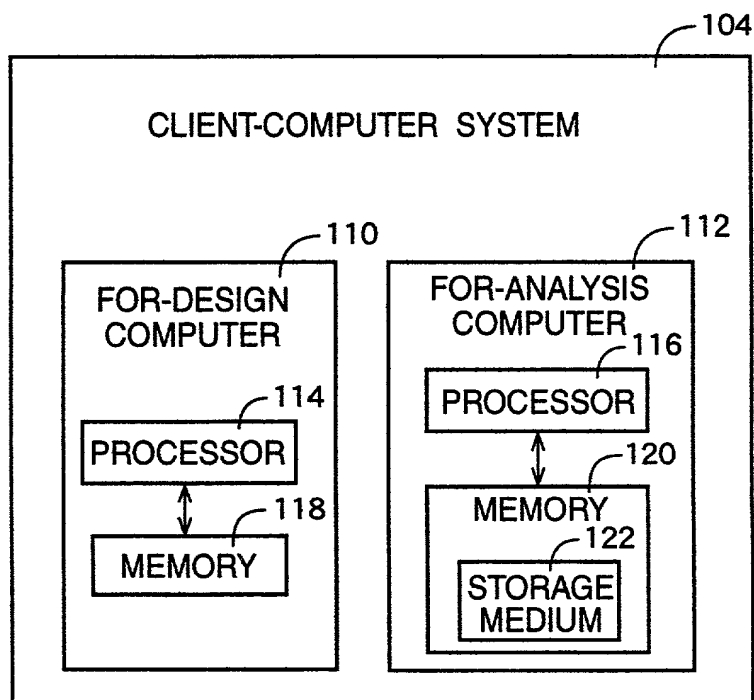


FIG.16



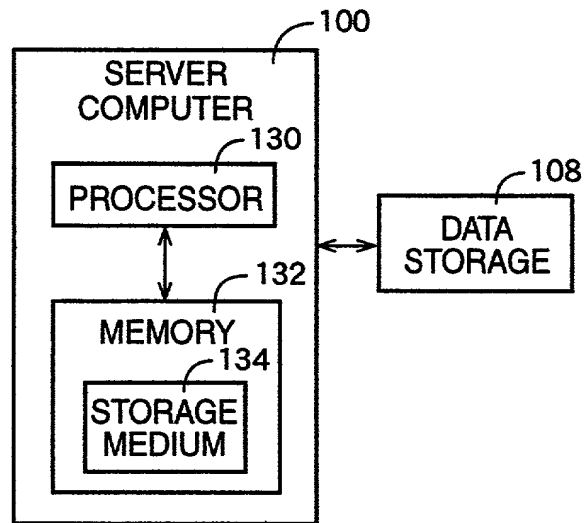


FIG.17

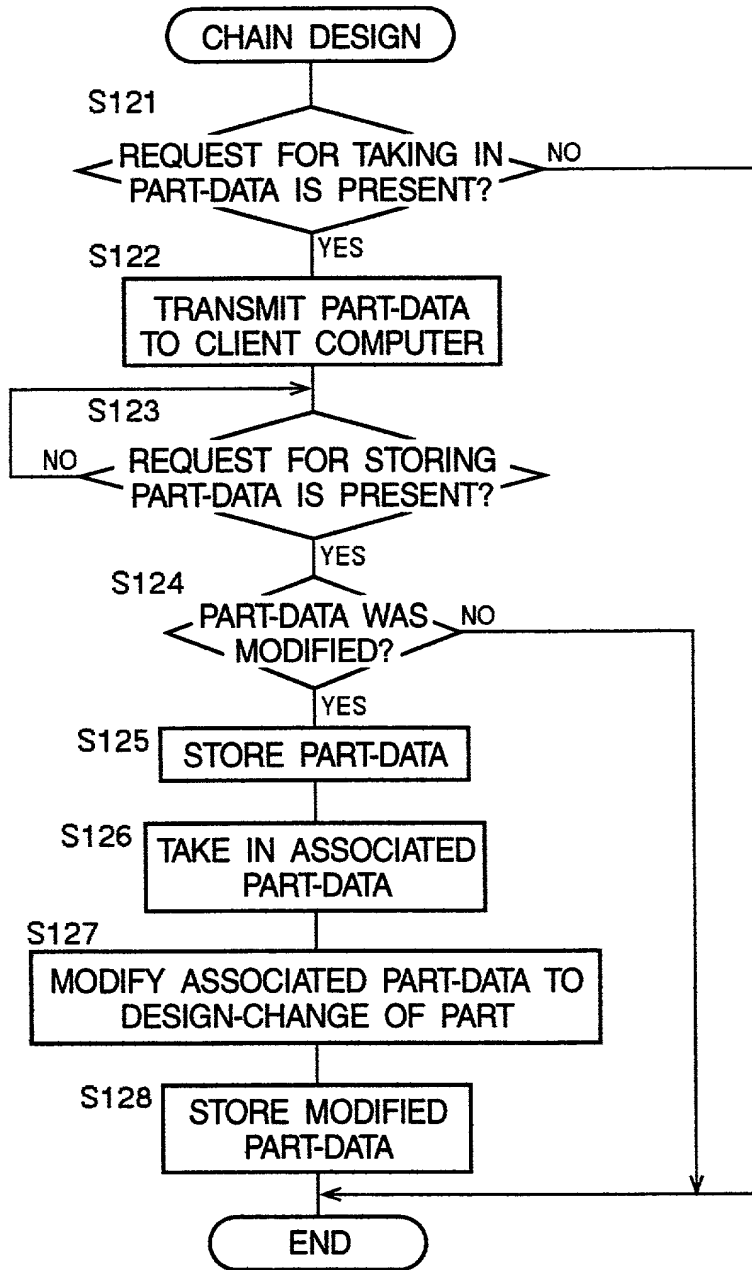


FIG.18

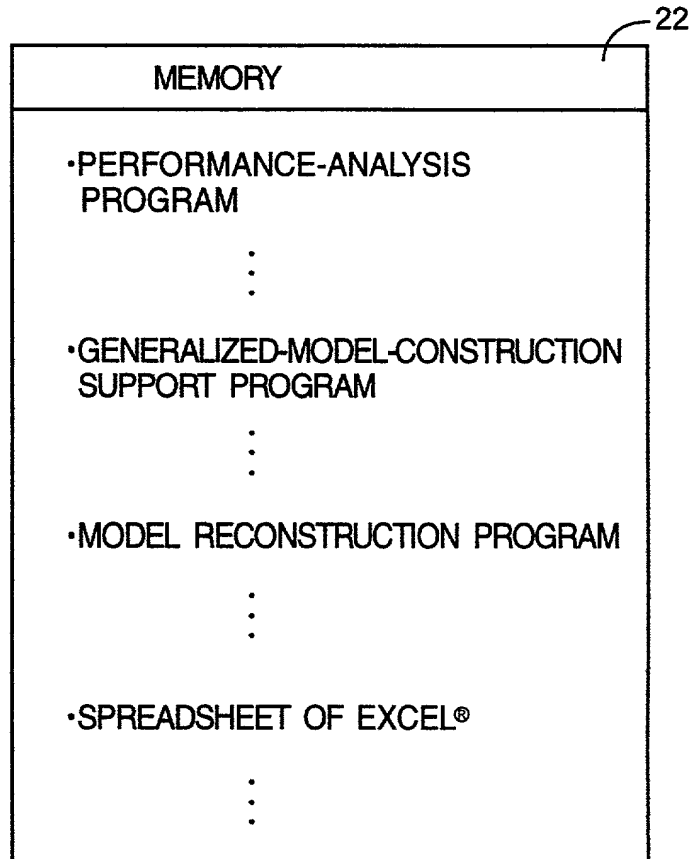


FIG.19

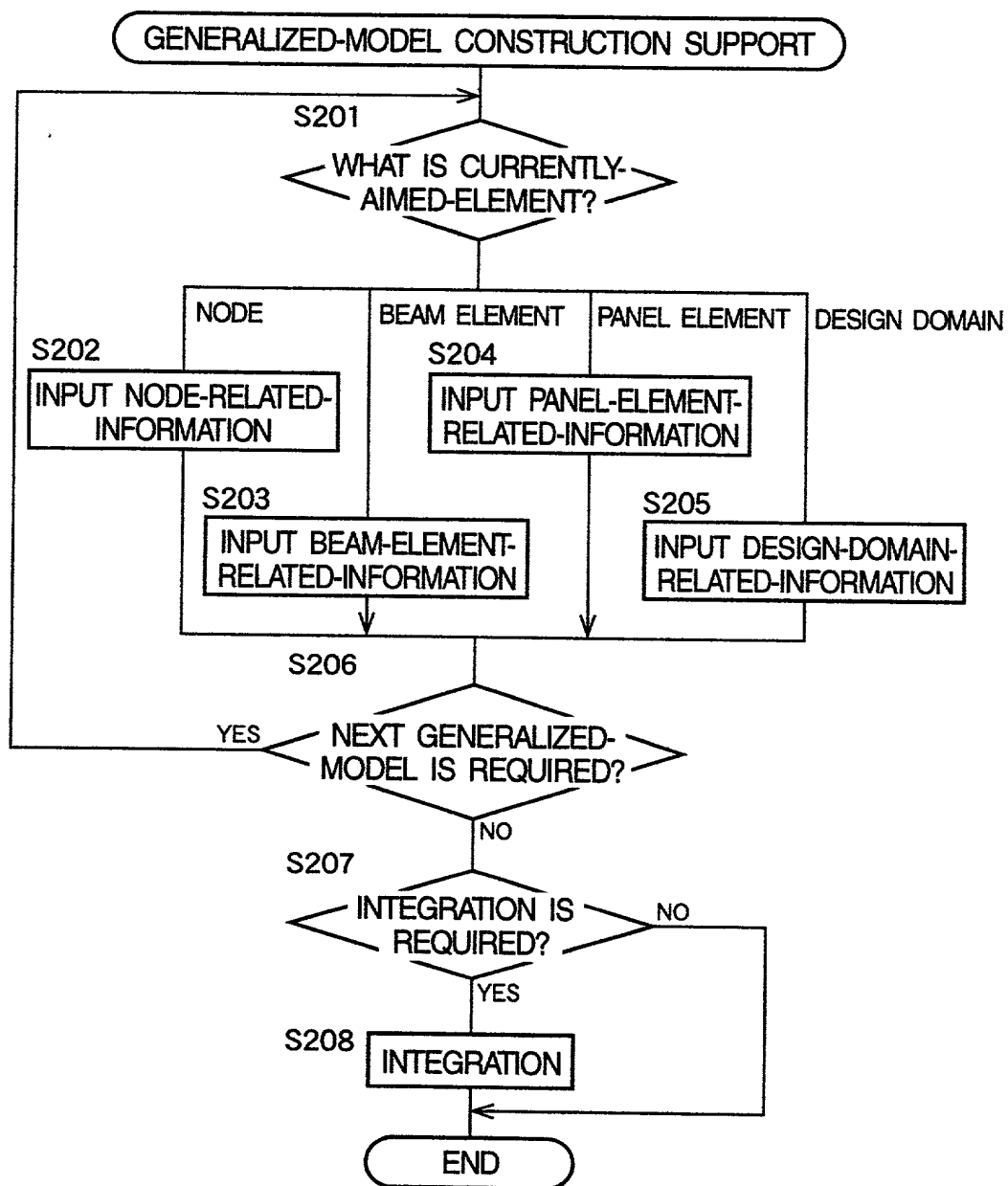


FIG.20

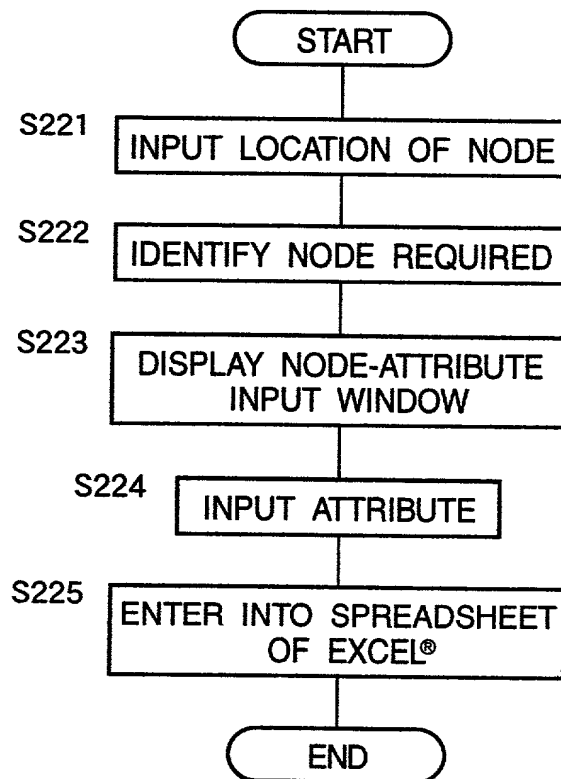


FIG.21

**NODE-ATTRIBUTE INPUT**

**BOUNDARY CONDITION**

**FIXING CONDITION**

**LOADING CONDITION**

**DEGREE OF FREEDOM**

☐ X

☐ Y

☐ Z

☐ Rot\_X

☐ Rot\_Y

☐ Rot\_Z

**ALL**

**SPRING STIFFNESS**

0

0

0

0

0

0

**LOAD**

F\_X 0

F\_Y 0

F\_Z 0

M\_X 0

M\_Y 0

M\_Z 0

**OK**

FIG.22

NUMBER OF NODES		NUMBER OF ELEMENTS	
8		10	

LOADING :				L LOAD VALUE (E.G.; L10)					
CONSTRAINT :				IF CONSTRAINED (=1)					
BY-BUSHING CONSTRAINT :				B SPRING CONSTANT (E.G.; B10)					

NODE NUMBER	X-COORDINATE [mm]	Y-COORDINATE [mm]	Z-COORDINATE [mm]	X- DIRECTION	Y- DIRECTION	Z- DIRECTION	ABOUT X-AXIS	ABOUT Y-AXIS	ABOUT Z-AXIS
1	0	0	0	1	1	1	1	1	1
2	1000	0	0						
3	3000	0	0						
4	4000	0	0						
5	0	0	1000	1	1	1	1	1	1

FIG.23

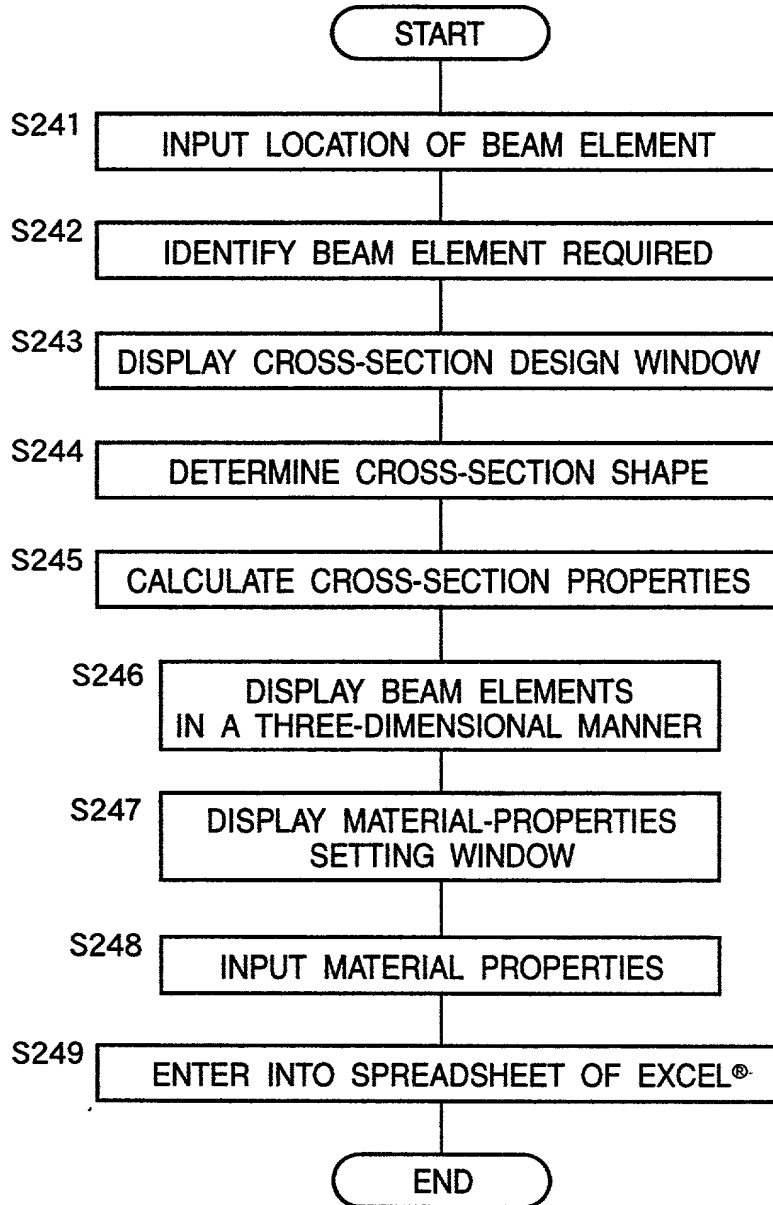


FIG.24



FIG. 25

FIG. 25

THREE-DIMENSIONAL DISPLAYING

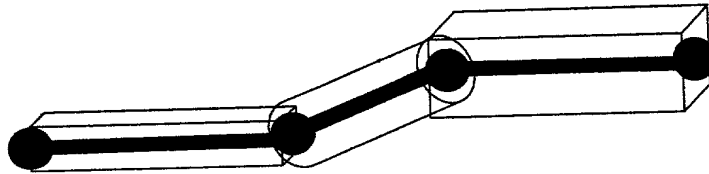


FIG.26

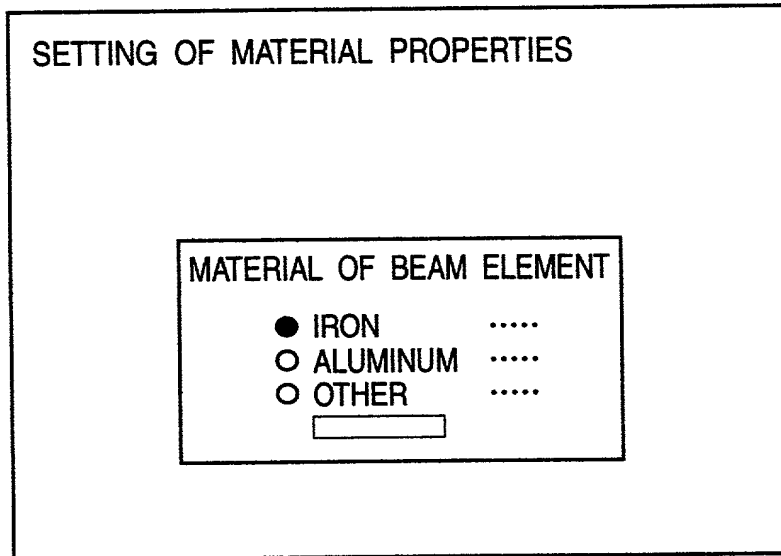


FIG.27

ELEMENT NUMBER	NODE1	NODE2	E[N/mm2]	$\nu$	$\rho$ [kg/mm3]	Bush side	ktx	kty	ktz
1	1	2	206000	0.3	7.85E-06				
2	2	3	206000	0.3	7.85E-06				
3	3	4	206000	0.3	7.85E-06				
4	5	6	206000	0.3	7.85E-06				
5	6	7	206000	0.3	7.85E-06				

FIG.28

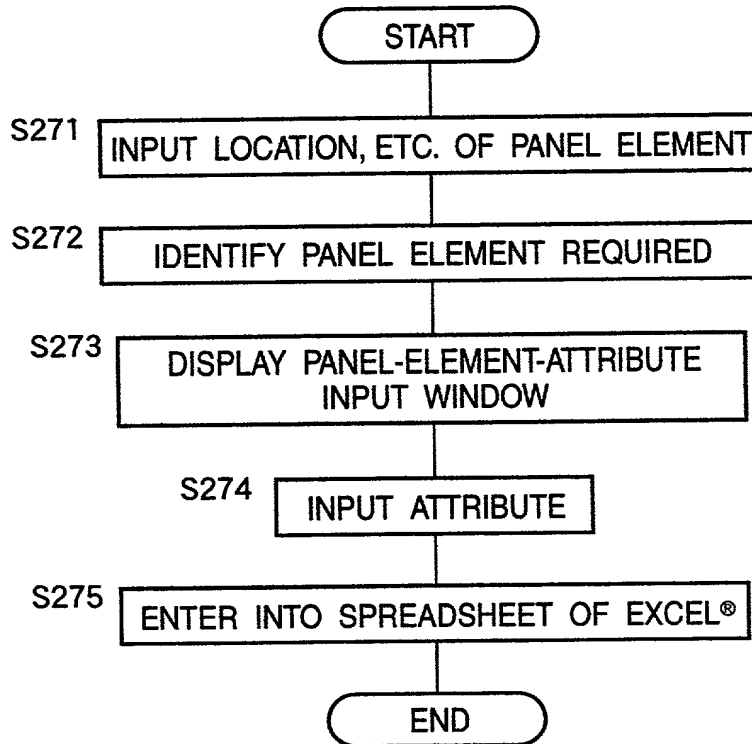


FIG.29

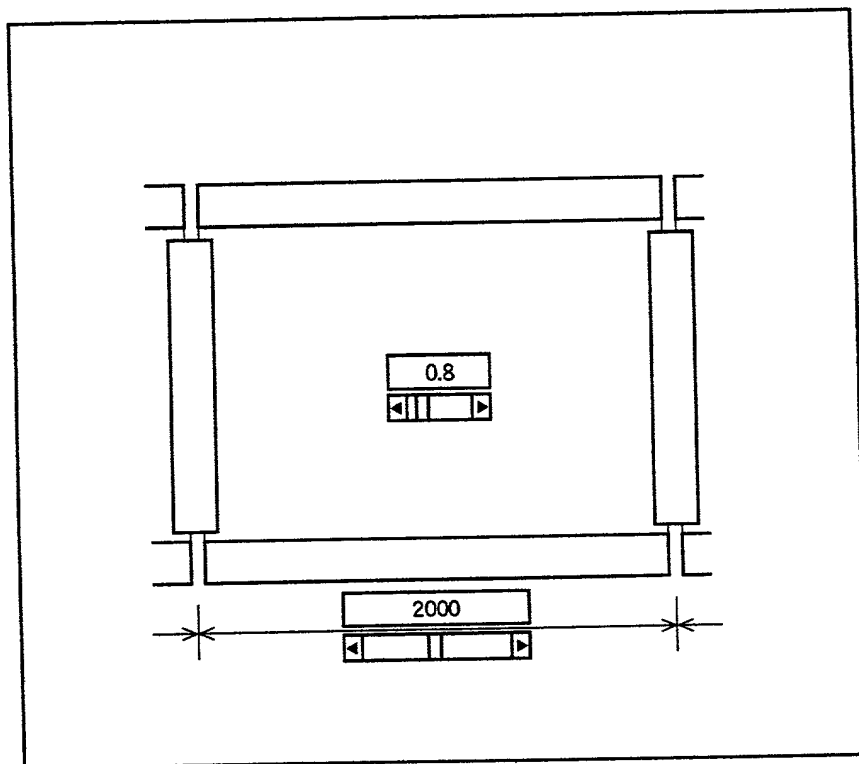


FIG.30

PANEL-ELEMENT-ATTRIBUTE INPUT

MATERIAL OF PANEL ELEMENT

☒ IRON .....  
☐ ALUMINUM .....  
☐ OTHER .....

FIG.31

ELEMENT NUMBER	NODE 1	NODE 2	NODE 3	NODE 4	E[N/mm <sup>2</sup> ]	$\nu$	Thickness
1	2	3	7	6	206000	0.3	0.8
2	3	4	8	7	206000	0.3	0.8

FIG.32



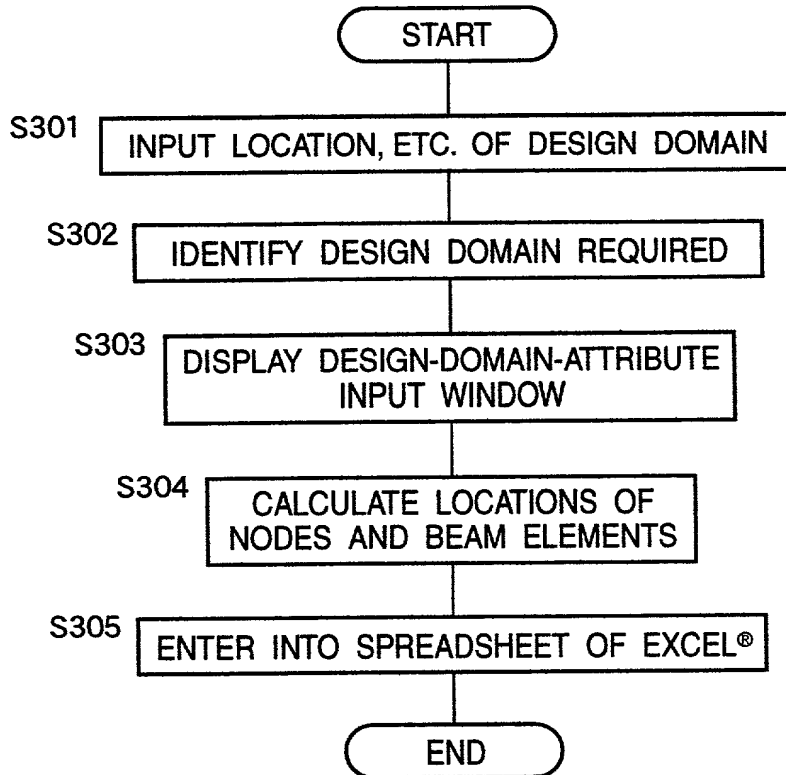


FIG.33

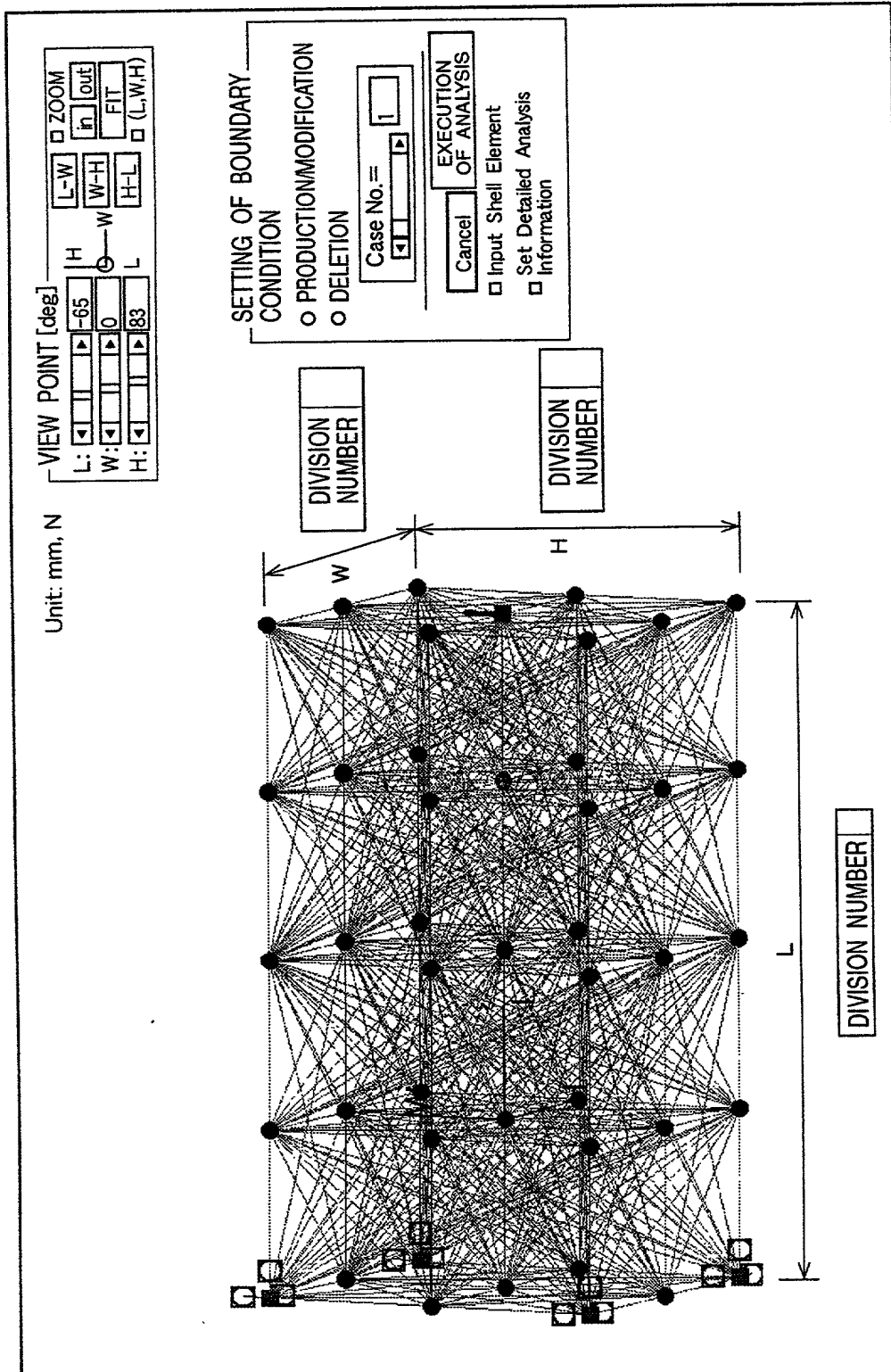


FIG.34

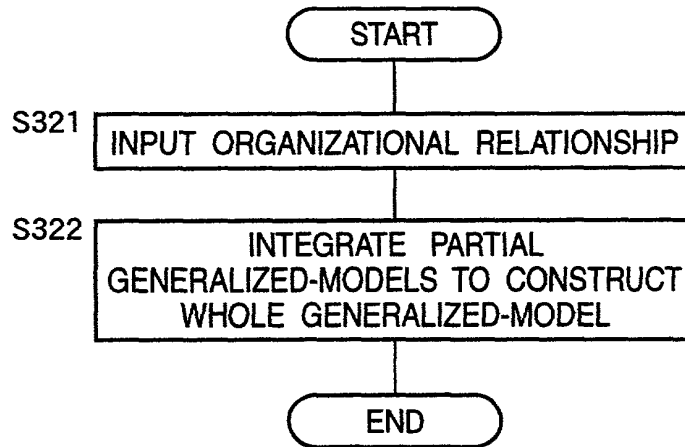


FIG.35

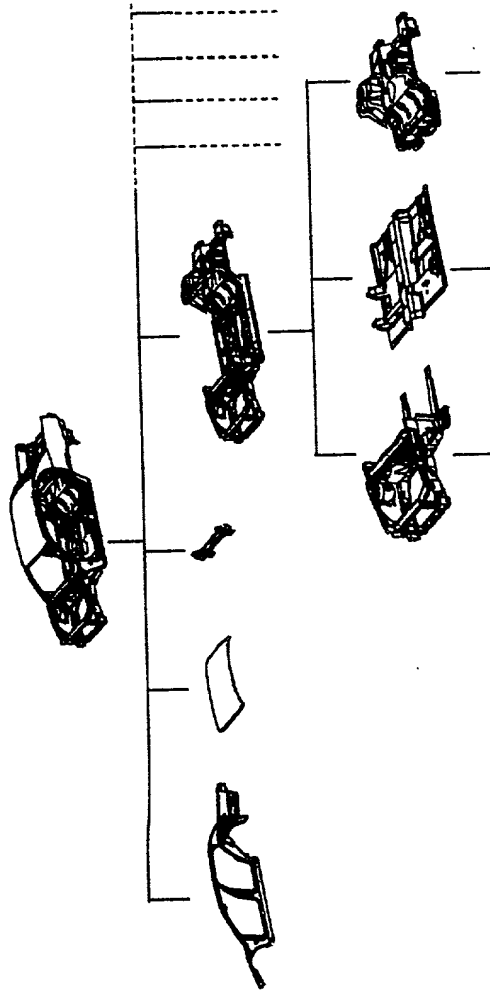


FIG. 36

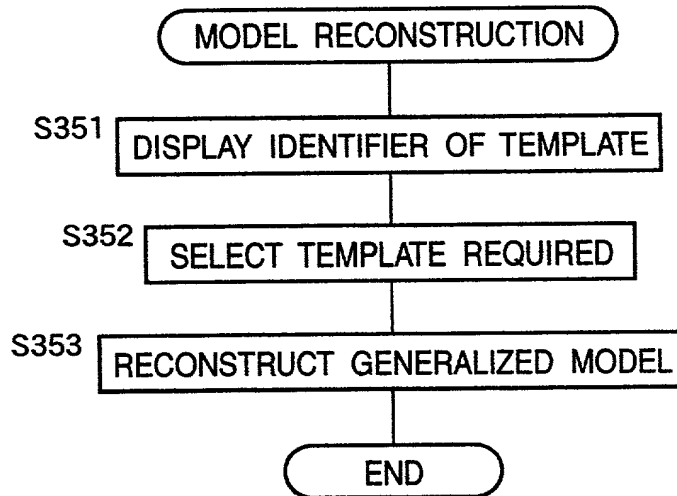


FIG.37

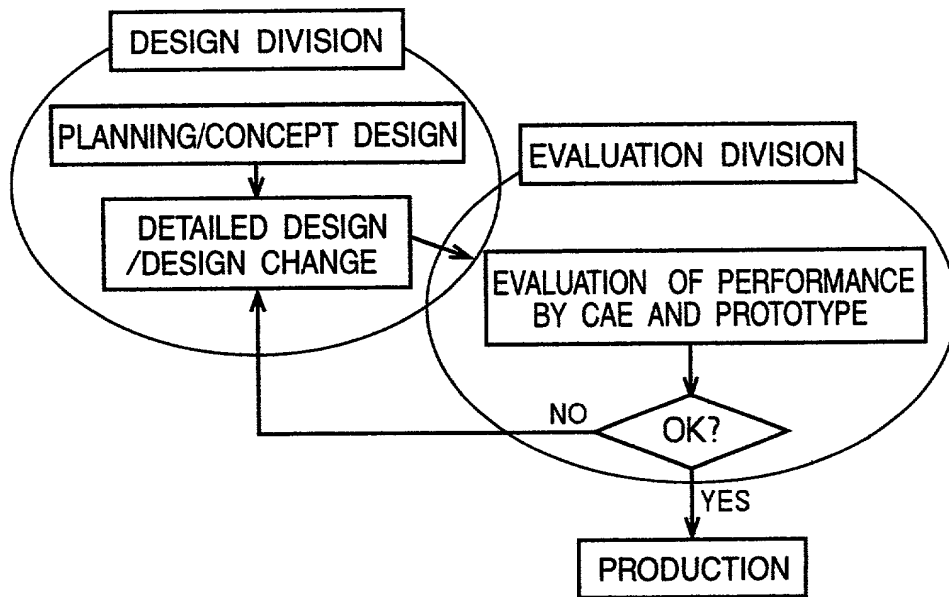


FIG.38